

Descriptions of GIS Mine Polygons Used in the Cumulative Impact Study

Virginia

Original Source Description

The source of the GIS mine polygons for Virginia used in this cumulative impact study is the a digital geographic database of coal mining permit boundaries in Virginia produced by the Virginia Department of Mines, Lands, and Minerals – Division of Mined Land Reclamation (DMLR) in Big Stone Gap, Virginia.

It consists of geo-referenced digital map data and descriptive attribute data. ...

This data set is a work-in-progress and represents the current amount of digital data available for this theme at the time of its production. ...

Description of Digital Data Base Queried for the Cumulative Impact Study

Staff from OSM's Pittsburgh Office downloaded the most current digital database from Virginia DMLR FTP server on September 16, 2002. This database consisted of 2358 mining polygons. Staff from OSM Big Stone Gap Field Office identified the prefix in the permit identification number (GIS Data Field "PERMIT") representing mines approved to use surface mining methods or a combination of surface and underground methods to extract coal: "11", "15", "16", and "17".

Mining permits approved by Virginia DMLR beginning from January 1992 to the most current date were selected using information provided in the GIS database (GIS Data Field "PEISSUEDT"). The permits on this list met the criteria established by the EIS Steering Committee for the cumulative impact study and was used to select a subset of mine permit digital data polygons from the source database. Further, using the boundaries of the EIS study area in Virginia, a GIS specialist at OSM Pittsburgh Office used readily available querying tools in ESRI ARCVIEW software to select only those surface mining permits that were located wholly or partly within the EIS study area. This filtered digital data, which consisted of multiple polygons for 98 surface mines, were forwarded to EPA's Wheeling Office.

Below is a list of digital mining polygons forwarded for inclusion in the cumulative impact study.

Permit	Issue Date	Surface Mine Description
1101530	6/21/1995	Mine #1
1101556	5/3/1996	JIM BELCHER FORK STRIP
1101736	1/26/2000	Burnt Poplar surface mine #1

Permit	Issue Date	Surface Mine Description
1101474	8/16/1993	Dwale #7 job
1101434	10/5/1992	MINE #5
1101599	5/9/1997	NEECE CREEK SURFACE MINE
1101654	8/25/1998	Mine #1
1101700	10/22/1999	Lower Elk Creek reserve
1101633	4/23/1998	SYCAMORE STRIP
1101785	10/1/2001	PHELPS NO. 1 MINE
1101550	12/21/1995	LAUREL FORK STRIP
1101707	11/9/1999	CLINTWOOD R-38
1101784	9/28/2001	Bee Branch Surface
1101400	1/13/1992	Guess Fork strip
1101762	11/9/2000	PAW PAW STRIP
1101795	2/1/2002	BEARWALLOW SURFACE MINE
1601787	11/16/2001	Buckeye Branch - Caney Fork remining permit
1101720	11/15/1999	Tilley Branch mine
1101781	8/28/2001	Glamorgan Auger Mine #1
1101621	11/12/1997	BULL GAP MINE
1101701	11/5/1999	STARR BRANCH STRIP
1601788	11/20/2001	CONVICT HOLLOW REMINING PERMIT
1101481	9/21/1993	GREENBRIER CREEK MINE
1101685	4/13/1999	LOVERS GAP #3 SURFACE MINE
1101759	9/28/2000	LOVERS GAP #4 SURFACE OPERATION
1101792	1/16/2002	Surface Mine No. 1
1101548	11/29/1995	Lovers Gap surface mine
1101553	3/19/1996	SHORTRIDGE BRANCH SURFACE MINE
1101606	7/7/1997	Toms Fork North surface mine
1101417	5/14/1992	HACKNEY HOLLOW SURFACE MINE
1101737	1/28/2000	TARPON SURFACE MINE
1101555	5/1/1996	STRIP #1
1101752	7/26/2000	HURRICANE BRANCH STRIP #1
1101416	5/13/1992	Rock Branch surface operation
1101494	3/2/1994	CANE BRANCH MINE
1101669	12/10/1998	STRIP #6
1101600	5/21/1997	MINE #1
1101622	11/17/1997	Georges Fork Surface Mine
1101518	11/30/1994	RED ONION MINE
1101782	9/7/2001	BIG CREEK SURFACE MINE
1501660	10/15/1998	GEORGE'S FORK #2 MINE
1101783	9/25/2001	ALLIED COAL MINE #2
1101447	12/1/1992	STALLARD BRANCH SURFACE MINE
1101675	2/10/1999	HIBBITTS GAP SURFACE MINE
1701547	11/9/1995	HESS CREEK KENNEDY SEAM COMPLEX
1101401	1/16/1992	NORTH FOX GAP SURFACE MINE
1101537	9/14/1995	BOLD CAMP SURFACE MINE
1101776	5/9/2001	Long Branch surface mine
1101538	9/22/1995	Wampler Ridge surface mine
1501778	6/4/2001	Straight Fork Surface Mine
1101445	11/23/1992	COBRA PIT #1
1101743	3/17/2000	BIRCHFIELD NO. 5
1101760	10/20/2000	Backbone Ridge surface mine
1101463	5/12/1993	TRACE FORK SURFACE OPERATION
1101623	12/1/1997	TRACE FORK STRIP
1601486	11/10/1993	Pardee No. 1 Strip
1101661	10/19/1998	ROGERS RIDGE SURFACE MINE
1101691	8/10/1999	TRACE FORK #3 MINE

Permit	Issue Date	Surface Mine Description
1101549	12/20/1995	HART CREEK SURFACE MINE
1101673	1/12/1999	DARK HOLLOW STRIP #1
1101516	11/10/1994	Rabbit Ridge
1101779	6/11/2001	HONEY BRANCH REMINING PERMIT
1101740	2/22/2000	STRIP #9
1101460	2/25/1993	Mine #2
1101468	7/21/1993	Raging Bull adjacent areas
1101627	1/13/1998	TRACE FORK #2
1101763	11/13/2000	COON BRANCH SURFACE/AUGER MINE
1101607	7/9/1997	BLACK BEAR SURFACE MINE
1101694	9/17/1999	Sawmill Hollow mine
1101800	4/26/2002	AMOS RIDGE SURFACE MINE
1101521	1/23/1995	SCREAMING EAGLE #2 SURFACE MINE
1101699	10/18/1999	FORK RIDGE MINE
1601656	9/14/1998	Jr.
1501702	11/5/1999	BANNER #2 STRIP
1601738	2/1/2000	Stonega #1 Strip (Bluff Spur mine)
1601505	9/8/1994	MINE #49
1101774	4/26/2001	SAWMILL HOLLOW #2
1501773	4/10/2001	JR.
1101681	3/16/1999	BLACK BEAR #2 SURFACE MINE
1101602	5/23/1997	Silver Fox surface mine
1101671	12/30/1998	BANNER #1 STRIP
1601503	7/29/1994	SARGENT HOLLOW
1701766	11/21/2000	Jr.
1601876	10/4/2001	Stonega No. 2 Strip
1601576	9/27/1996	Black Creek surface mine
1101758	9/26/2000	Black Bear #3 surface operation
1101536	9/13/1995	DANTE REFUSE RECOVERY OPERATION
1101794	1/16/2002	Roda #2 Strip
1101620	11/6/1997	POSSUM TROT HOLLOW MINE
1601491	1/14/1994	AUSTIN POWDER HOLLOW SURFACE & DEEP MINE
1101492	2/15/1994	White Stallion
1101750	6/19/2000	KELLY BRANCH SURFACE MINE
1101580	10/29/1996	C & M #3
1601777	5/21/2001	BULL RUN SURFACE MINE
1601744	3/20/2000	STATE LINE STRIP
1601423	8/3/1992	EASTERN STRIP
1601466	5/26/1993	Western strip
1601519	12/14/1994	SOUTHERN STRIP